

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Technical Data Green Products

Data Sheet N1023, Rev. -

Power Surface Mount Schottky Rectifier (80V/100V, 60Amp)

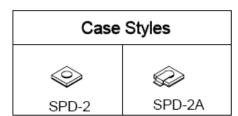
Applications:

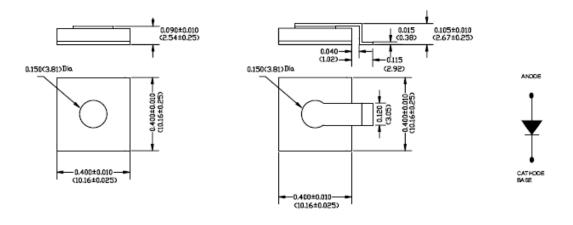
- · Switching power supply
- Converters
- · Reverse battery protection
- Redundant power subsystems
- Many other high current AC/DC power supplies

Features:

- 175 °C T_J operation
- Low forward voltage drop
- · High surge capacities
- High frequency operation
- Guaranteed reverse avalanche capability
- Low profile surface mount package
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Dimensions: In mm/ Inches





SPD-2 SPD-2A

Suffix "R" Denotes Reversed Polarity

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Maximum Ratings:

Characteristics	Symbol	Condition		Max.	_ Units _
Peak Inverse Voltage	V_{RWM}	-	80	(63SPB080/A)	V
			100	(63SPB100/A)	
Max. Average Forward	I _{F(AV)}	50% duty cycle, rectangular wave form		60	Α
Max. Peak One Cycle Non- Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	860		А
Non-Repetitive Avalanche Energy(per leg)	E _{AS}	T_J =25 °C , I_{AS} =0.75A, L=40 mH	11.25		mJ
Repetitive Avalanche Current(per leg)	I _{AR}	I_{AS} decaying linearly to 0 in 1 μ sec Frequency limited by T_J max. V_A =1.5 \times V_R		0.75	Α

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop*	V_{F1}	@ 60A, Pulse, T _J = 25 °C	0.87	V
	V_{F2}	@ 60A, Pulse, T _J = 125 °C	0.72	V
Max. Reverse Current (per	I _{R1}	@V _R = rated V _R	1.0	mA
leg) *		$T_J = 25 ^{\circ}C$		
	I _{R2}	@V _R = rated V _R	24.0	mA
		$T_J = 125 ^{\circ}C$		
Max. Junction Capacitance	CJ	$@V_R = 5V, T_C = 25 ^{\circ}C$	1500	pF
(per leg)		$f_{SIG} = 1MHz$		
Max. Voltage Rated of	dv/dt	-	10,000	V/μs
Change				

^{*} Pulse Width < 300 μ s, Duty Cycle <2%

Thermal-Mechanical Specifications:

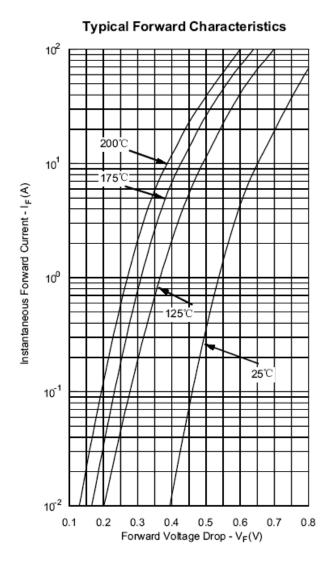
Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	TJ	-	-55 to +175	°C
Max. Storage Temperature	T _{stg}	-	-55 to +175	°C
Maximum Thermal Resistance Junction to Case	$R_{ heta JC}$	DC operation	0.37	°C/W
Case Style	SPD-2/A			

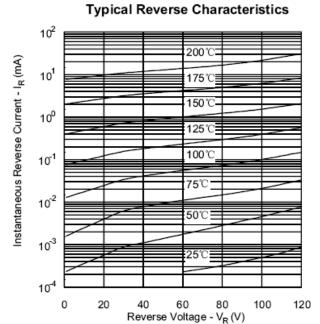
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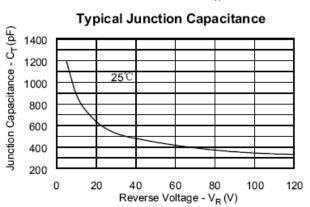
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Technical Data
Data Sheet N1023. Rev. -

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